

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P229823

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-67-RDP-UNV-L935-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4823.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

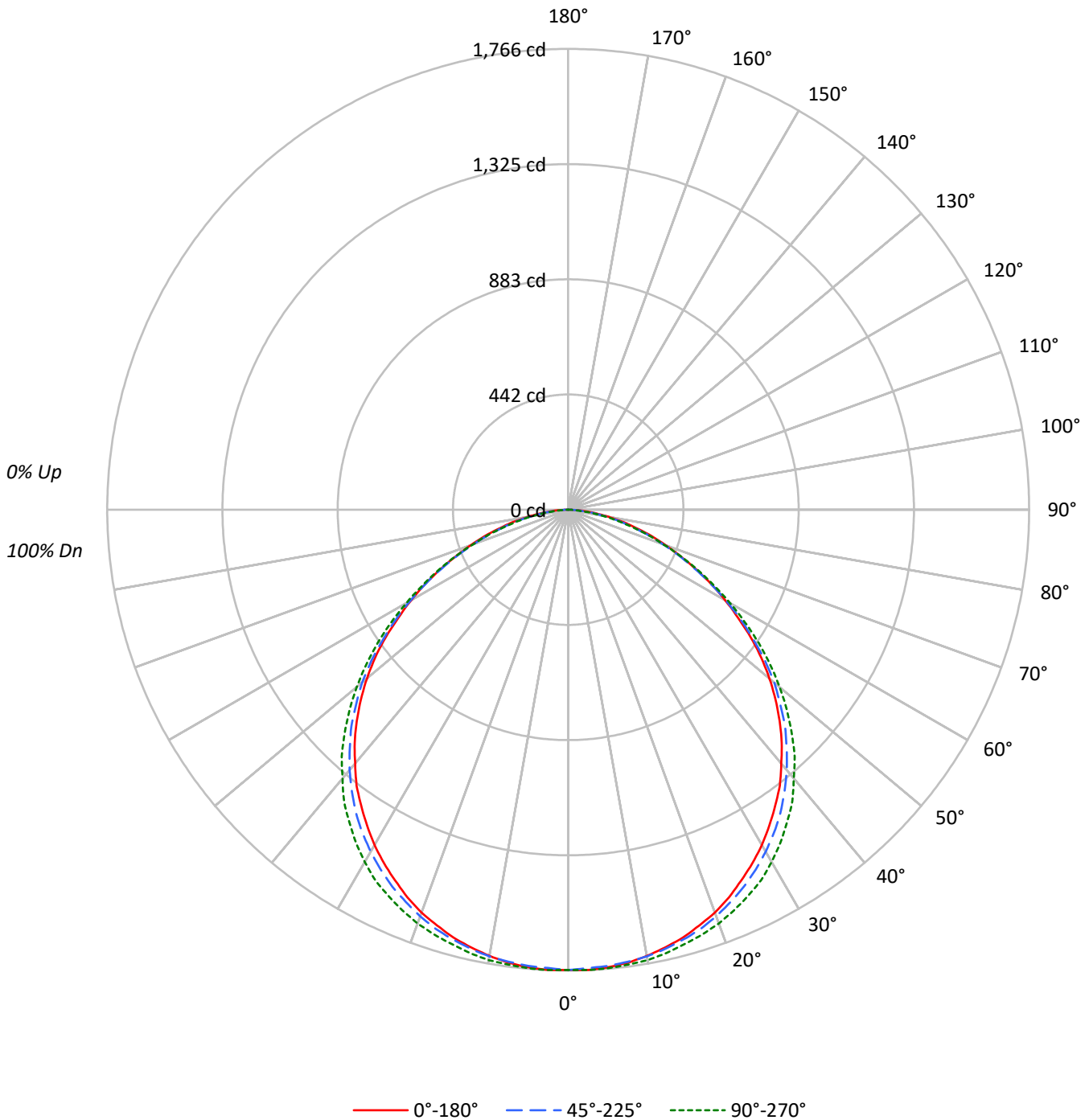
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2702	2702	2702
5°	2706	2698	2712
10°	2700	2703	2726
15°	2692	2704	2733
20°	2678	2702	2750
25°	2650	2693	2758
30°	2624	2676	2757
35°	2586	2651	2733
40°	2539	2605	2689
45°	2481	2544	2624
50°	2398	2455	2520
55°	2282	2311	2379
60°	2130	2141	2197
65°	1956	1943	1989
70°	1778	1729	1737
75°	1581	1494	1484
80°	1372	1227	1194
85°	1125	868	675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	3.5
10°-20°	482.2	10.0
20°-30°	736.1	15.3
30°-40°	887.4	18.4
40°-50°	904.9	18.8
50°-60°	774.5	16.1
60°-70°	533.5	11.1
70°-80°	273.5	5.7
80°-90°	63.7	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1385.6	28.7
0°-40°	2273.0	47.1
0°-60°	3952.4	81.9
0°-90°	4823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1760	1756	1755	1760	1764	167
15°	1698	1696	1705	1718	1724	479
25°	1568	1574	1594	1621	1632	723
35°	1383	1389	1418	1449	1462	865
45°	1145	1147	1175	1204	1211	882
55°	854	849	865	884	891	762
65°	540	527	536	540	549	536
75°	267	256	252	252	251	288
85°	64	57	49	44	38	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.8	1763.8	1763.8	1763.8	1763.8
2.5°	1765.6	1762.0	1758.3	1762.0	1765.6
5°	1760.1	1756.5	1754.6	1760.1	1763.8
7.5°	1751.0	1747.3	1747.3	1754.6	1758.3
10°	1736.3	1734.5	1738.2	1745.5	1752.8
12.5°	1718.0	1718.0	1723.5	1732.7	1740.0
15°	1697.9	1696.1	1705.2	1718.0	1723.5
17.5°	1670.5	1672.3	1685.1	1699.8	1707.1
20°	1643.0	1644.9	1657.7	1677.8	1686.9
22.5°	1608.3	1611.9	1626.6	1652.2	1661.3
25°	1568.0	1573.5	1593.6	1621.1	1632.1
27.5°	1527.8	1533.3	1555.2	1586.3	1600.9
30°	1483.9	1491.2	1513.1	1546.1	1558.9
32.5°	1434.5	1439.9	1467.4	1500.3	1513.1
35°	1383.2	1388.7	1418.0	1449.1	1461.9
37.5°	1332.0	1332.0	1361.3	1397.9	1410.7
40°	1269.8	1271.6	1302.7	1337.5	1344.8
42.5°	1211.2	1211.2	1238.7	1271.6	1284.4
45°	1145.4	1147.2	1174.6	1203.9	1211.2
47.5°	1077.7	1077.7	1101.5	1128.9	1136.2
50°	1006.3	1002.7	1030.1	1052.1	1057.5
52.5°	933.1	927.6	949.6	967.9	975.2
55°	854.4	849.0	865.4	883.7	891.0
57.5°	772.1	764.8	783.1	799.6	803.2
60°	695.3	684.3	698.9	708.1	717.2
62.5°	618.4	605.6	616.6	622.1	629.4
65°	539.7	526.9	536.1	539.7	548.9
67.5°	464.7	455.6	457.4	462.9	466.6
70°	397.0	386.1	386.1	386.1	387.9
72.5°	334.8	318.4	316.5	318.4	318.4
75°	267.1	256.2	252.5	252.5	250.7
77.5°	214.1	199.4	197.6	193.9	190.3
80°	155.5	142.7	139.1	137.2	135.4
82.5°	107.9	97.0	93.3	89.7	84.2
85°	64.0	56.7	49.4	43.9	38.4
87.5°	23.8	22.0	18.3	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)